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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/020,594	12/13/2001	Jurgen Schredl	70408	7149
75	90 01/30/2003			
McGLEW AND TUTTLE John James McGlew Scarborough Station		EXAMINER		
			TRAN,	TRAN, LEN
Scarborough, NY 10510-0827			ART UNIT	PAPER NUMBER
			1725	
			DATE MAILED: 01/30/2003	DATE MAILED: 01/30/2003
			-	7

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/020,594	SCHREDL ET AL.				
Office Action Summary	Examiner	Art Unit				
	Len Tran	1725				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
1)⊠ Responsive to communication(s) filed on 01 J	anuary 1213 .					
2a) This action is FINAL . 2b) Thi	is action is non-final.					
3) Since this application is in condition for allowa						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4) Claim(s) 1-11 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-11</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
<i>'</i> = * 1.' =	•					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in rep						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) ★ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1.☐ Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No. 9/485, 426						
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
 a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. 						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				
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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 3-6, and 9-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Kunitomo et al (US 5,436,503).

Kunitomo et al disclose the method of producing contact surfaces for connecting two substrate comprising the steps of applying solder material to the first substrate, and bonding the first with a second substrate by partial fusion (figure 3, col. 6, lines 17-28). The first substrate is provided with intermediate metallization (12) prior to applying solder (figures 6 and 7). The spacing metallization (9) is a spherical shape. An adhesive compound (13) is applied to the spacing metallization (col. 6, lines 25-18). A gap between the first and second substrate is filled with a filler material (14) (col. 6, lines 29-35) to secure the mechanical joint.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

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having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 5. Claims 7 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kunitomo et al.

Kunitomo et al disclose the claimed inventions above in paragraph 2, but fail to disclose the adhesive compound is introduced by immersing the spacing metallization in volume of the conductive adhesive compound or means of an application device which can be moved relative the spacing metallization.

However, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to either apply by immersion or application device, since Kunitomo et al disclose applying the adhesive compound in order to promote bonding. Therefore, any method of applying the adhesive compound would have been obvious and depending on the design choice.

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6. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kunitomo et al (US '503) as applied to claim 2 above, and further in view of JP 03291938 A.

Kunitomo et al disclose the claimed inventions above, but fail to mention fusing with laser means to the spacing metallization.

However, JP '938 discloses the method of laser heating of the spacing metallization (abstract and figure 3) in order to promote bonding between the metals.

Therefore, it would have been obvious to one of ordinary skill in the art at the time applicant's invention was made to provide laser as heating source as taught by JP '938, in Kunitomo et al in order to promote bonding between the two substrates.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Len Tran whose telephone number is (703)605-1175. The examiner can normally be reached on M-F, 8:30 - 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on 703-308-3318. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703)305-3602 for regular communications and (703)305-3602 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0661.

Len Tran Examiner Art Unit 1725

LT January 20, 2003

> M. A. C. A ELVE PRIMARY EXAMINER